

Water Audit Level 1 Validation- Validator Review & Certification Statement

Water System(s) This Audit Covers:

Public Water System Identification (PWSID)¹: CA 2110003 **Water System Name** North Marin Water District

¹List only 1 PWSID which should match the PWSID on the FWAS Instructions Tab. For Special cases where the audit covers multiple water systems connected with permanent two-way interties, list those additional PWSIDs in the **Notes** below and describe the water distribution system(s) configuration.

Notes (Provided to Validator by Water System):

Audit Period:

Validation Date: 9/1/2021

Water System Representatives: David Ladd

Sufficient Supporting Documents Provided: yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 72 **Data Validity Band (Level):** Level IV (71-90)

ILI 0.1

Real Loss: 1.07 gal / conn / day

Non-revenue water as percent of cost of operating system: 0.8

Apparent Loss: 2.57 gal / conn / day

Cerification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

If not, rejected recommendations are included here:

Validator Information:

Water Audit Validator: Kim Manago

Validator Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

Validator Provided

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Notes:

Water Audit & Water Loss Improvement Steps:

1. Steps Taken: Water System to identify steps taken in the preceding 3 years to increase data validity, reduce real loss, and reduce apparent loss as informed by the annual validated water audit:

- Implemented a full District wide AMI meter retrofit, completed March 2019.
- Implementing an asset management system that among other things will be used to look at the distribution system in terms of pressure zones, and allow us to run water loss reports within smaller areas of our system.
- In the process of developing a customer meter inspection/replacement program.

2. Planned Steps (OPTIONAL): If your audit reflects negative real losses or the cost of non-revenue water is greater than 100% of the operating costs (issues for which your audit will not meet code requirements), you will be asked what steps you are planning in the coming year to address these issues. If you already know what steps you plan to take, you may list them here. If not, please prepare a response within 90 days (23 CCR Section 638.6[a]).

Certification Statement by Utility Executive

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)

Drew McIntyre

Executive Position

General Manager

Signature



Date

9/30/21